

SENCITY® Omni-S broad band WiFi Antenna 1399.17.0224

SOA-2456/360/1/0/V

Description

Broad band omni-directional WiFi & mobile antenna for 1710 up to 6000 MHz
 WLAN 2400 - 2500 MHz and 5150 - 6000 MHz WiFi IEEE 802.11 a/b/g/h/p and n
 Mobile / cellular 1710 - 2200 MHz
 LTE 2300, LTE 2500 and LTE 2700 MHz / WiMax 3400 - 3800 MHz
 Small & robust outdoor stick antenna IP66 / IP68 / IP69K
 Direct mount on N type connector of wireless access points or clients



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	1710 - 2000	2000 - 2700	2700 - 3800	4900 - 5150
VSWR	2	2	2	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	1.5	2	1.5	2.5
3dB beamwidth (h) (°)	360	360	360	360

	Band 5
Frequency (MHz)	5150 - 6000
VSWR	2
Impedance (Ohm)	50
Gain (dBi)	2
3dB beamwidth (h) (°)	360

Ports

	Port 1
Connector	N, plug (male)
Polarization	vertical

General Data

DC Grounding	No
Composite Power max (W)	10

Antenna meets railway standard according to EN 50155

Mechanical Data

Dimensions (mm)	55 x 22 (Height x Diameter)
Weight (kg)	0.05

Coupling nut torque: nominal 1Nm
 maximum 3Nm

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP69K
Flammability rating	UL 94-HB
RoHS 2011/65/EC	compliant
REACH 2006/1907/EC	compliant

Ingress protection IP66, IP68 & IP69K (EN 60529)

Flammability rating EN 45545 DIN 5510-2

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Temperature range (damp heat) EN 60068-2-30, Test Db, Variant 1 (40°C 6 cycles)

Temperature shock EN 60068-2-14, Test N, -45°C/85°C, 1h , 5 cycles

Vibration and shock EN 61373, category 1, class b (for railway carriage)

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Related Documents

Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00248614
3D-model	DOC-0000424893

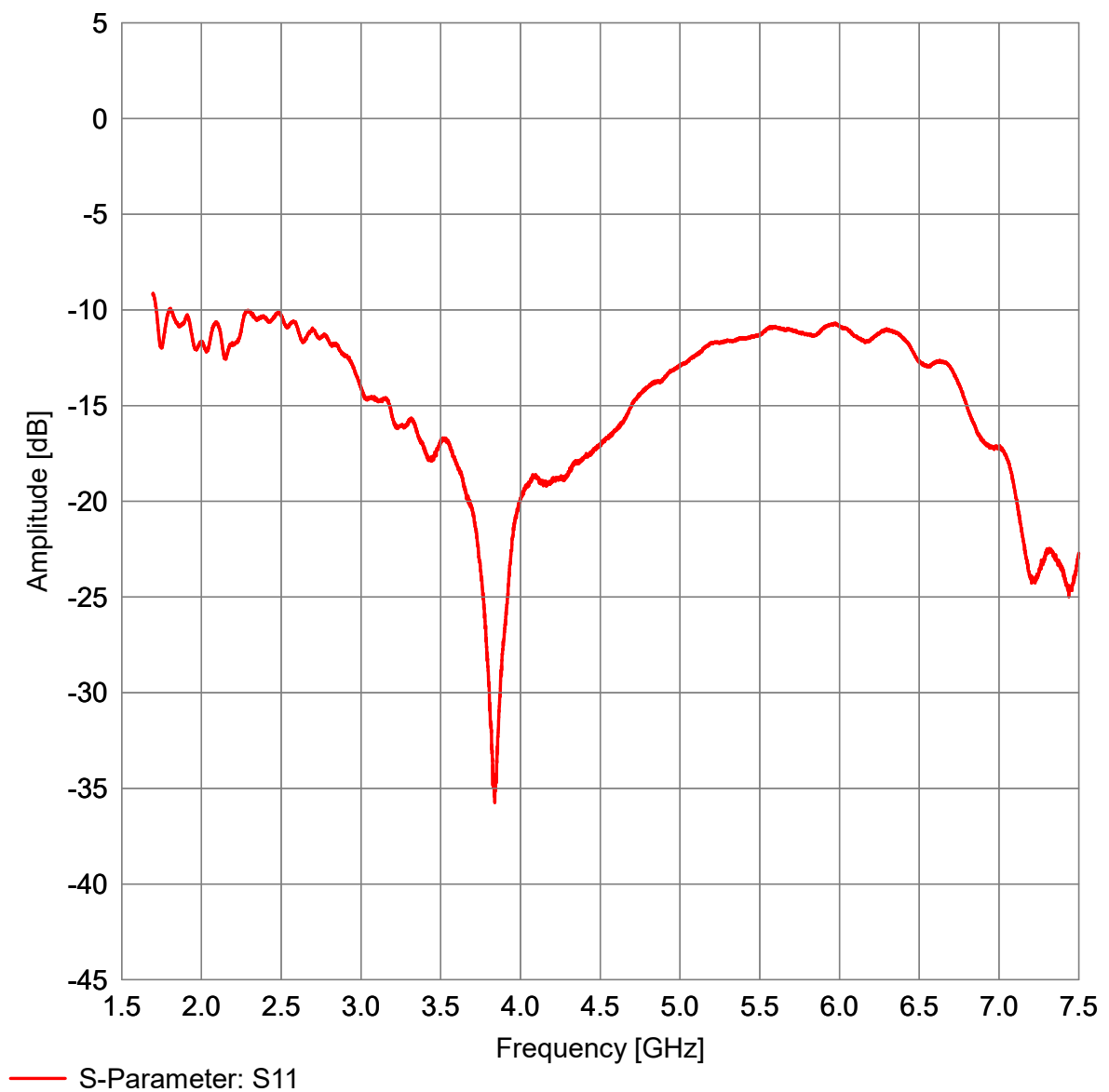
1399.17.0224

Article-No.: 85012283

Lot-No.: 5065

Port: Vertical

S-Parameter



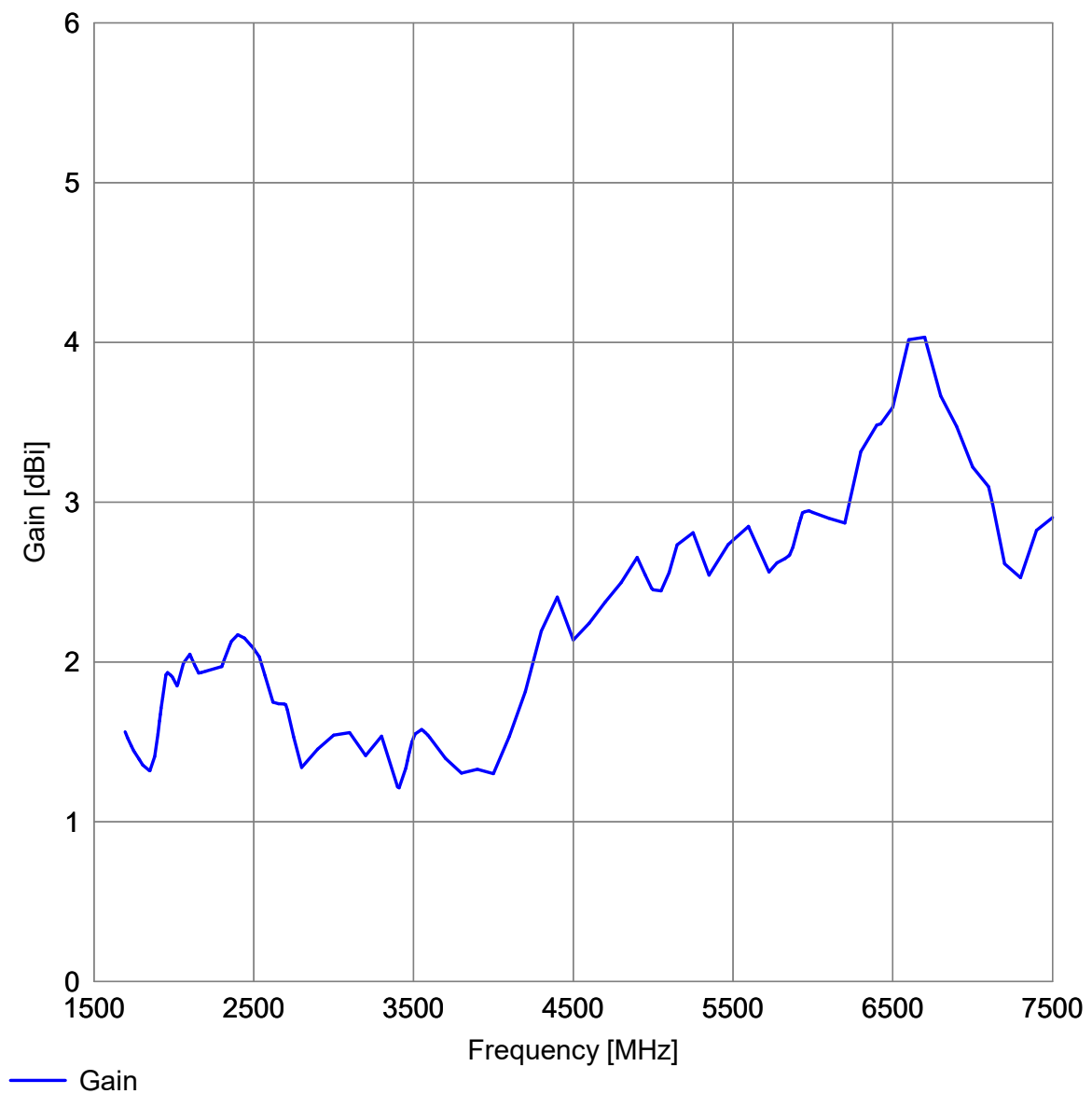
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Article-No.: 85012283

Lot-No.: 5065

Port: Vertical

Gain



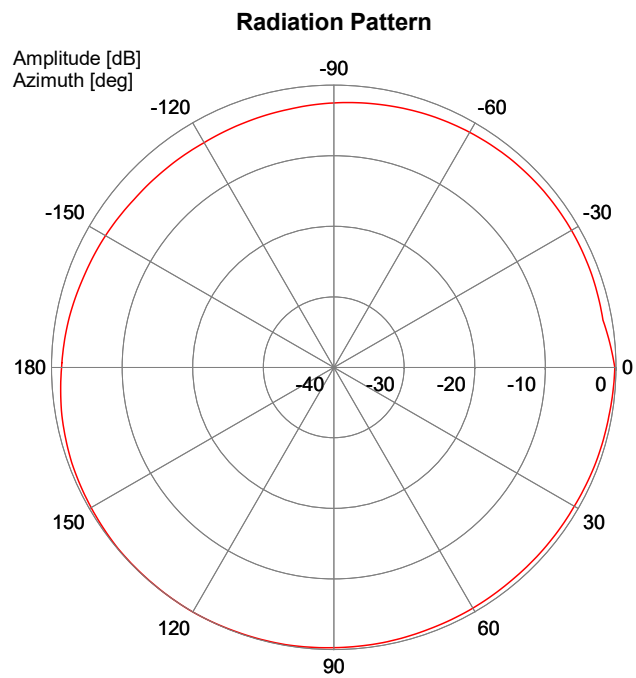
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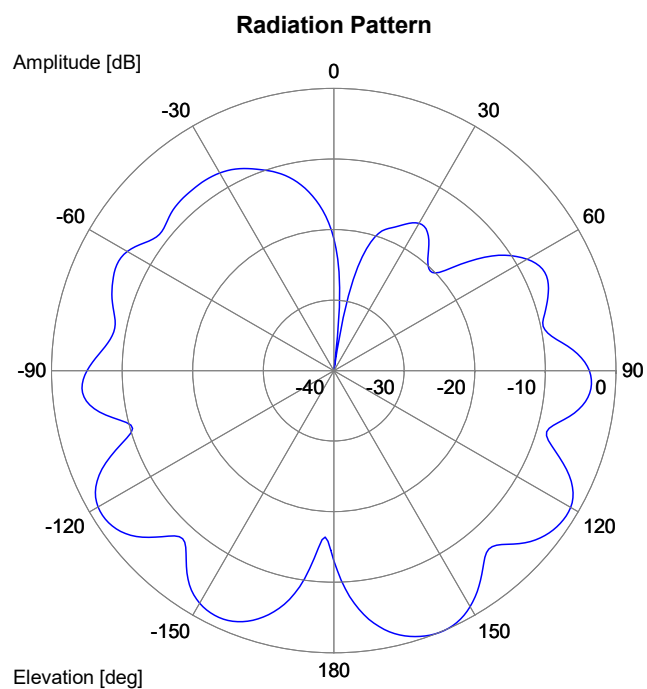
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Port: Vertical

Frequency: 1695 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

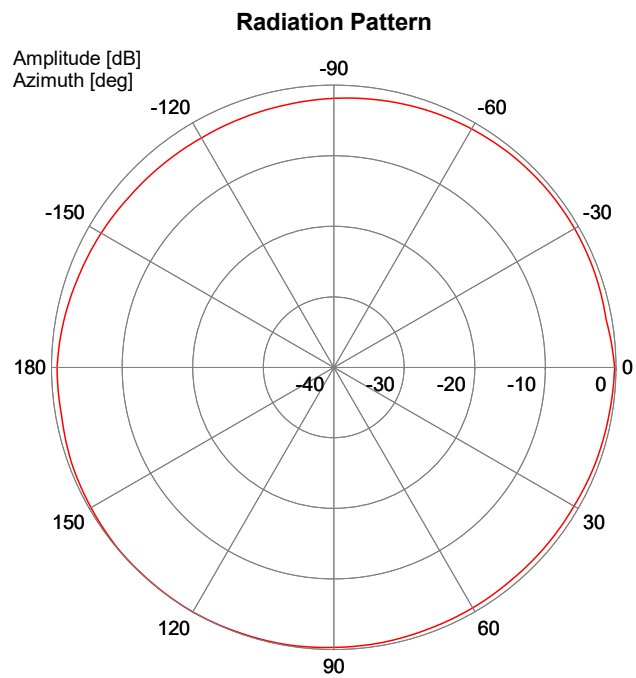
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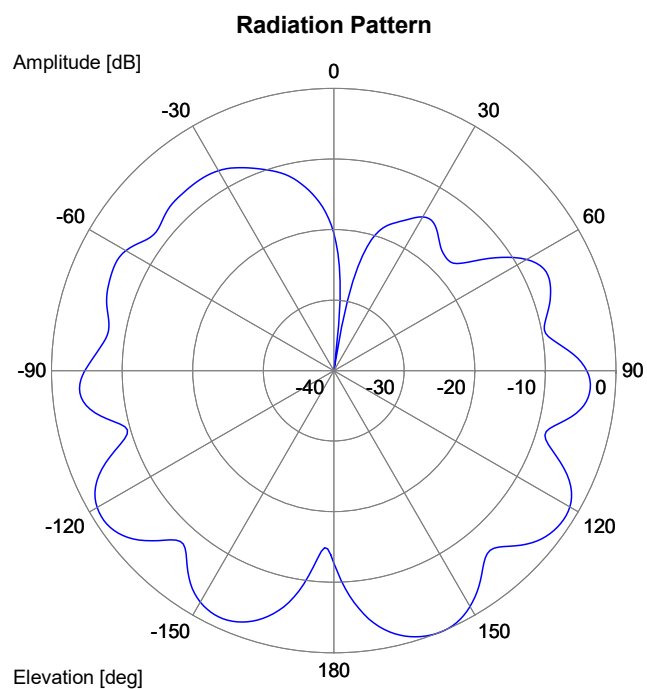
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Port: Vertical

Frequency: 1710 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

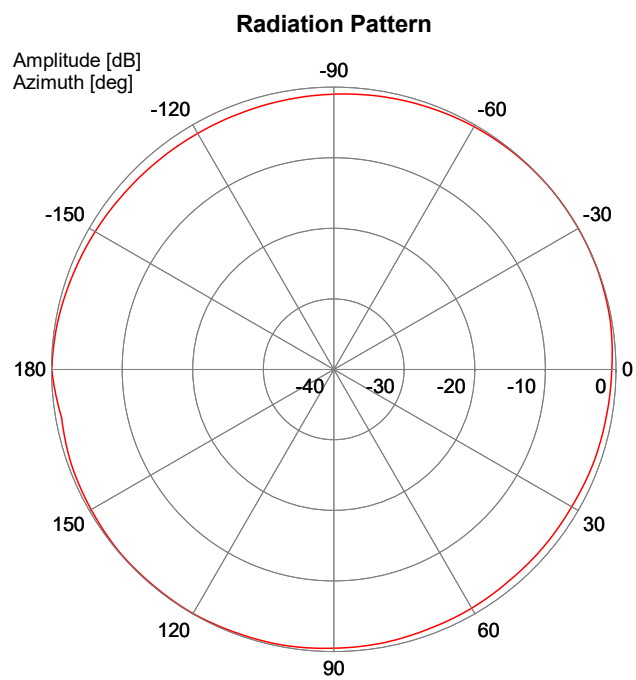
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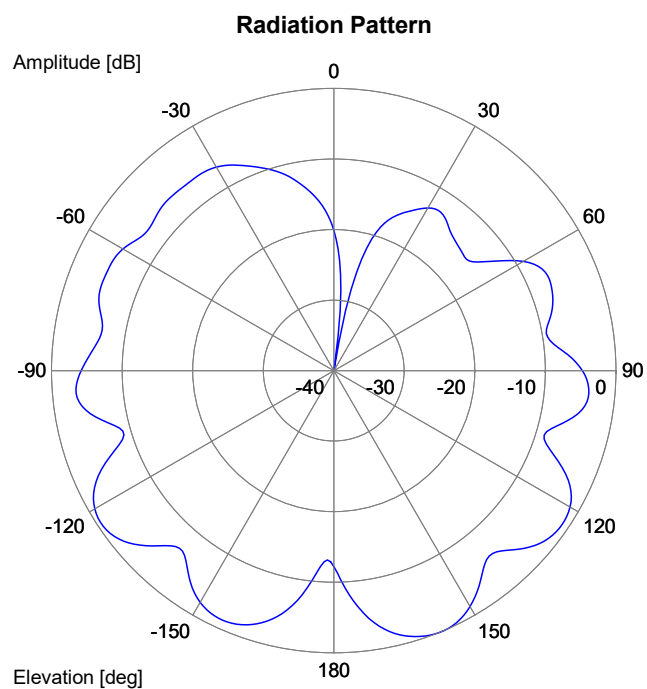
Lot-No.: 5065

Port: Vertical

Frequency: 1733 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

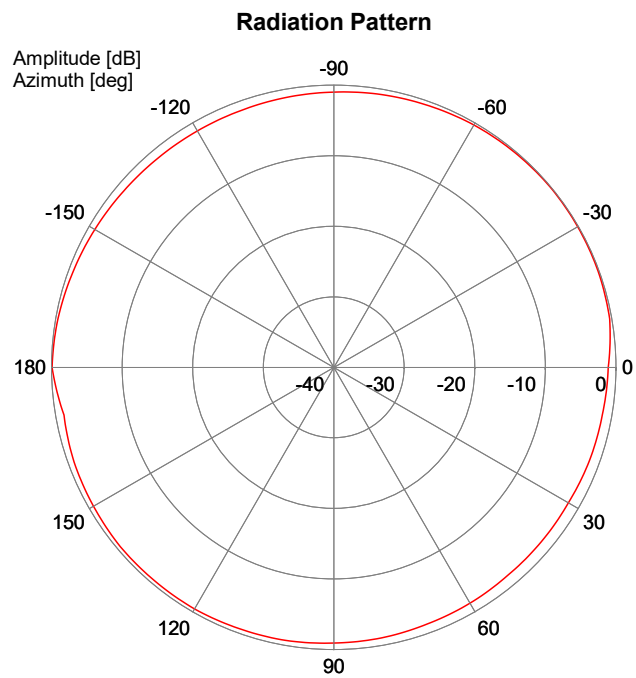
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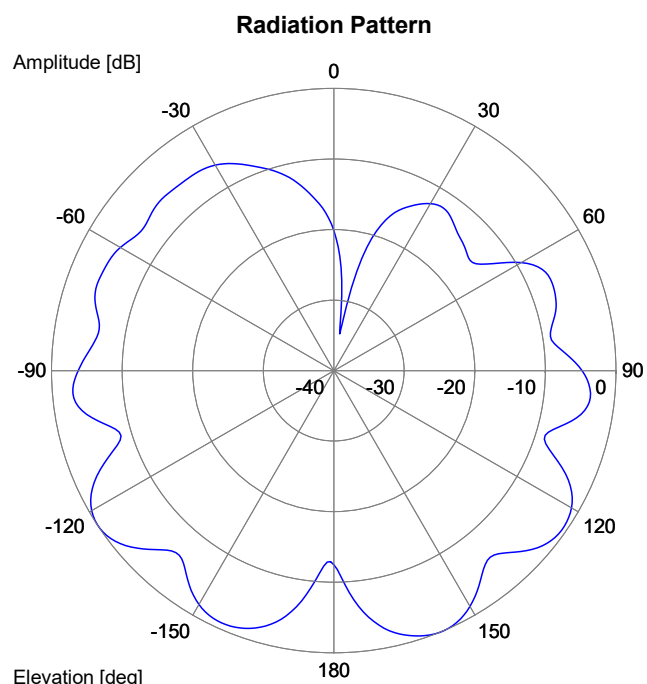
Lot-No.: 5065

Port: Vertical

Frequency: 1748 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

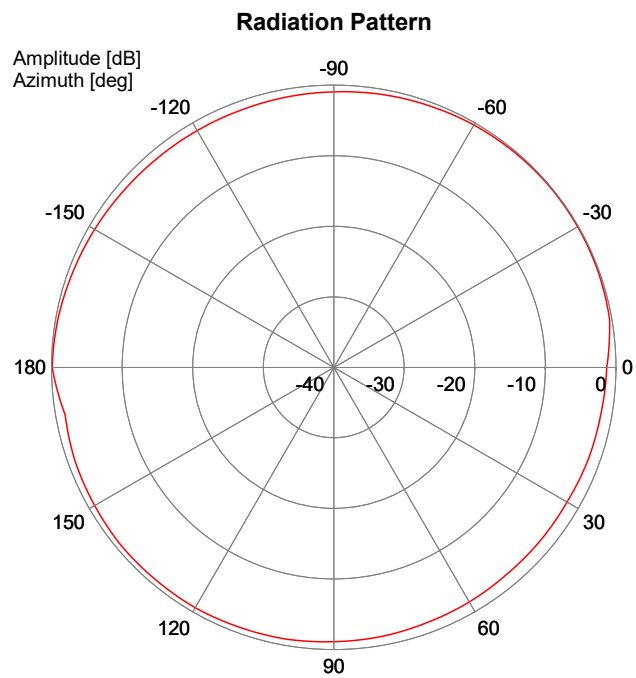
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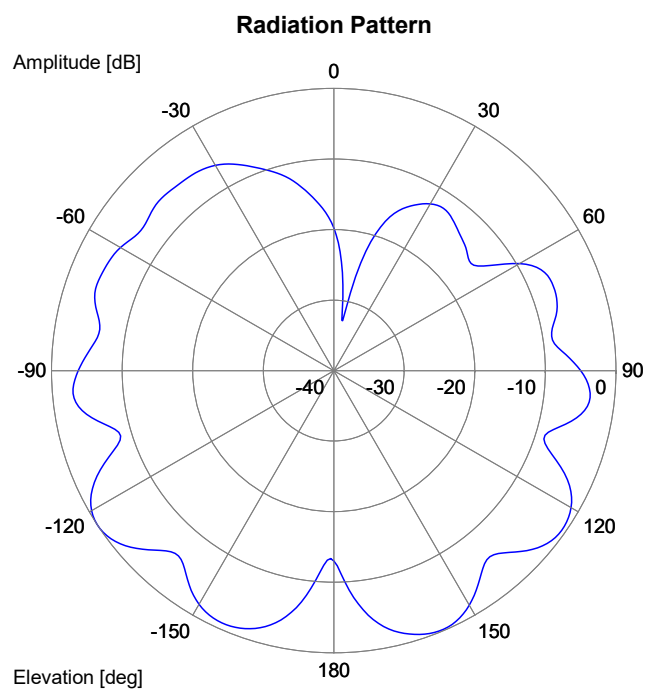
Lot-No.: 5065

Port: Vertical

Frequency: 1755 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

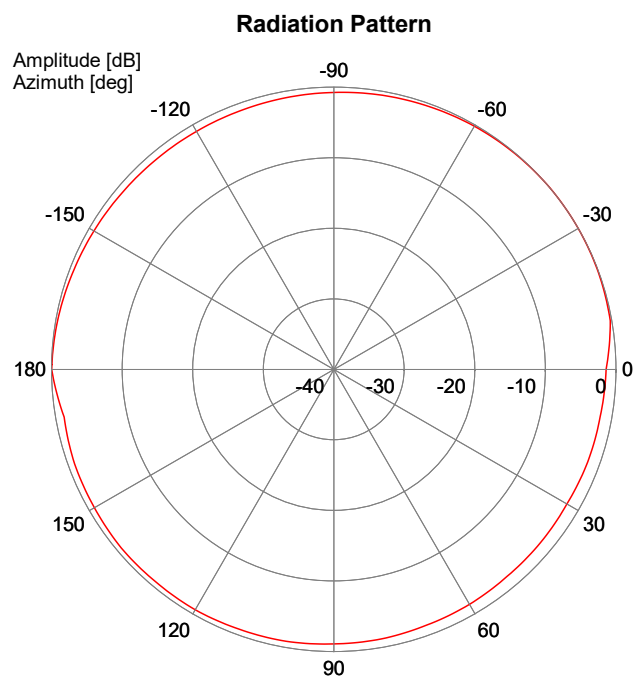
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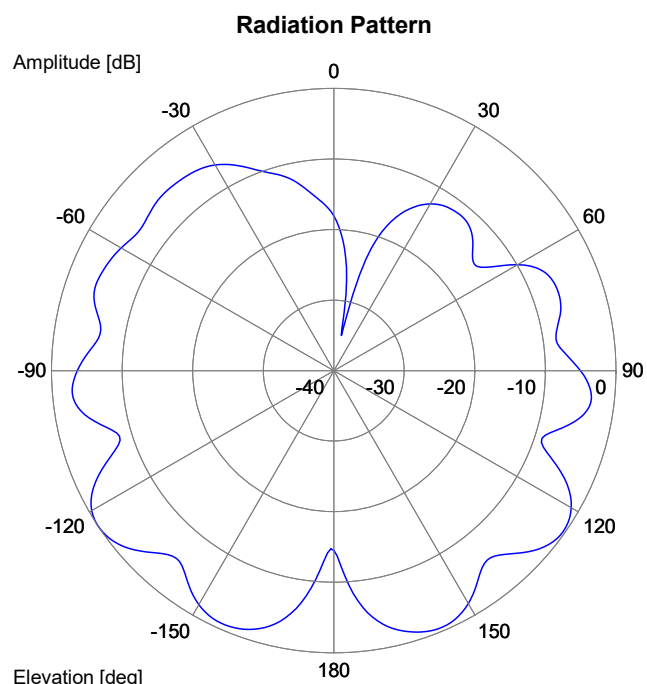
Lot-No.: 5065

Port: Vertical

Frequency: 1780 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

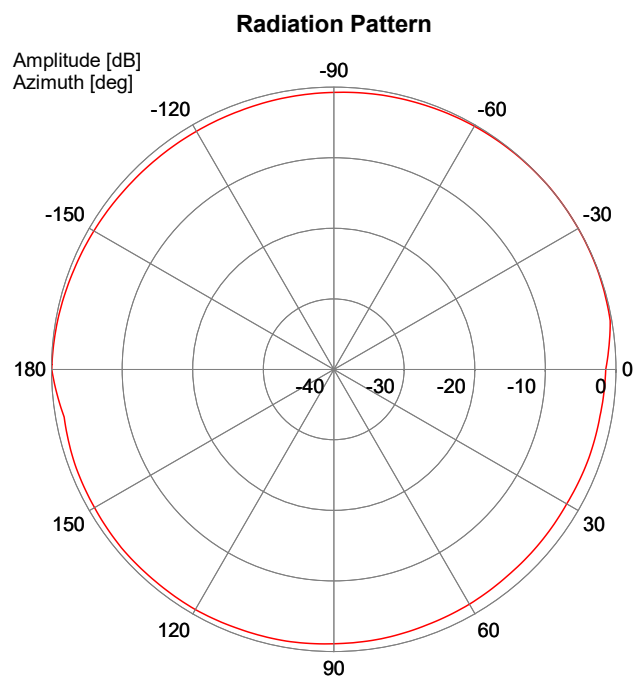
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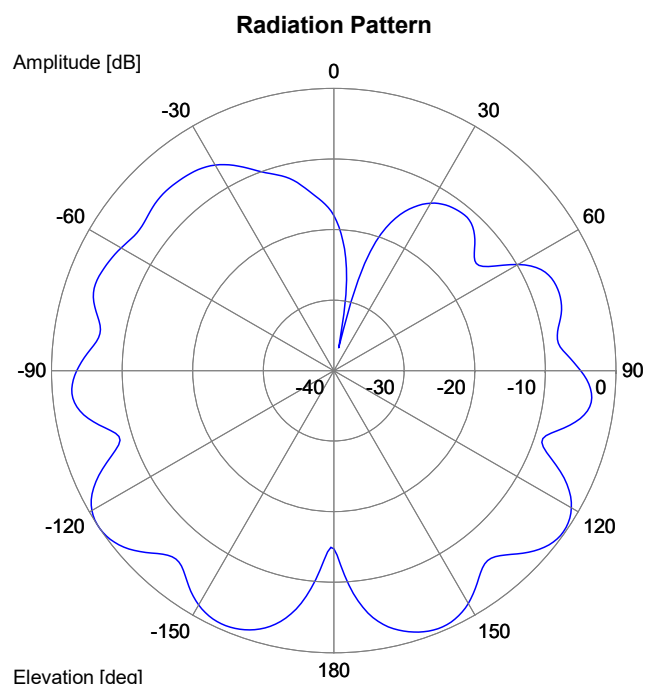
Lot-No.: 5065

Port: Vertical

Frequency: 1785 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

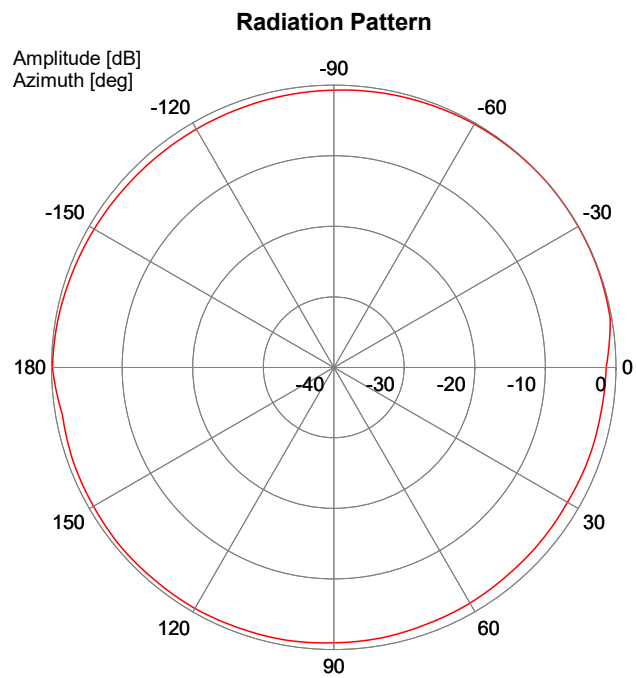
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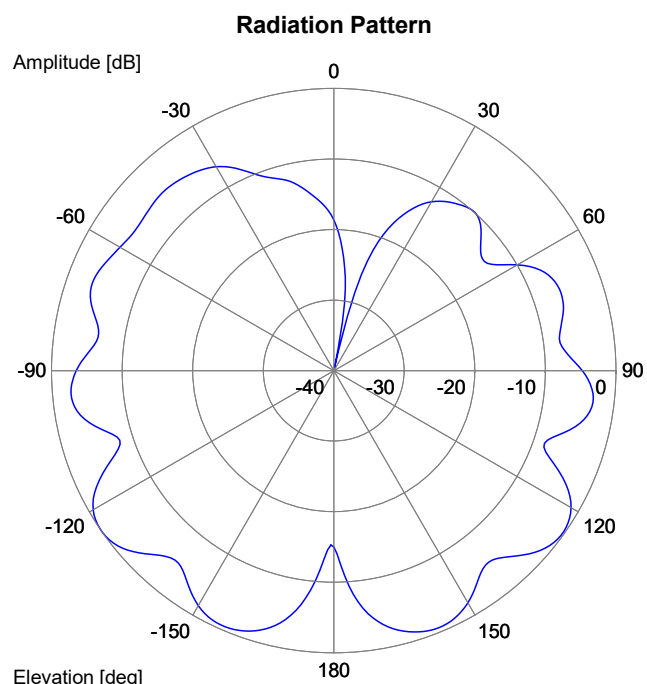
Lot-No.: 5065

Port: Vertical

Frequency: 1805 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

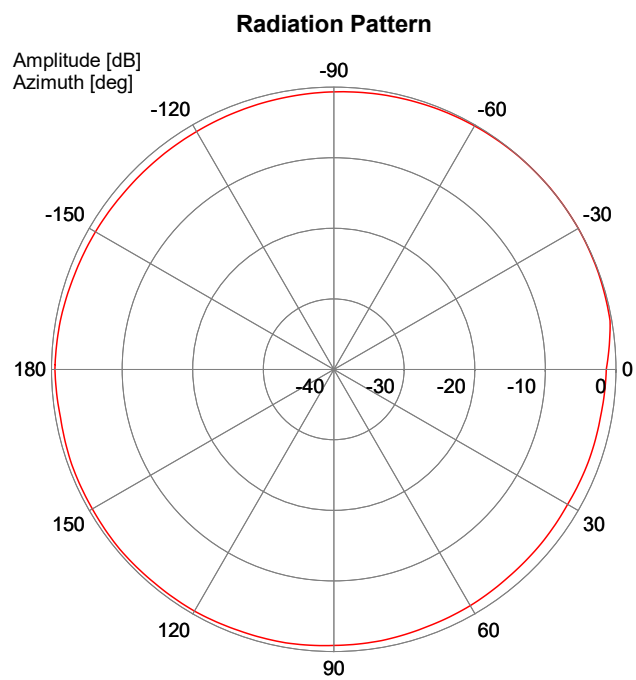
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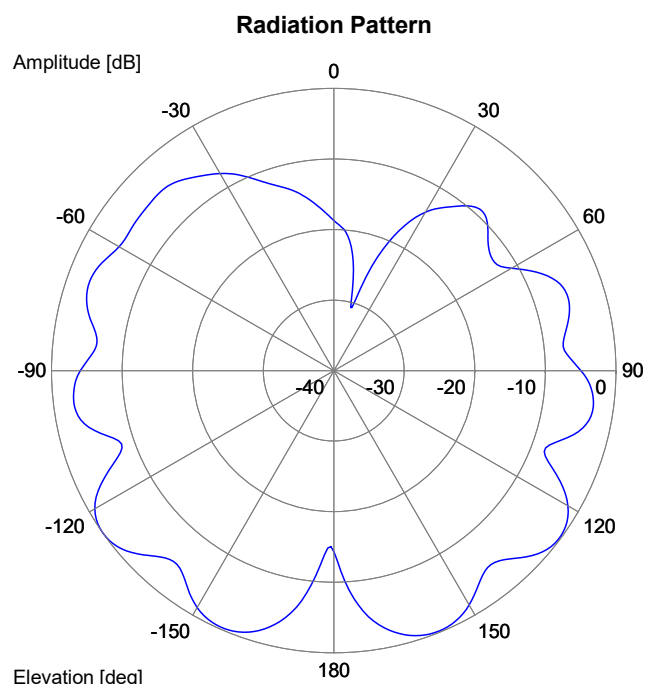
Lot-No.: 5065

Port: Vertical

Frequency: 1843 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

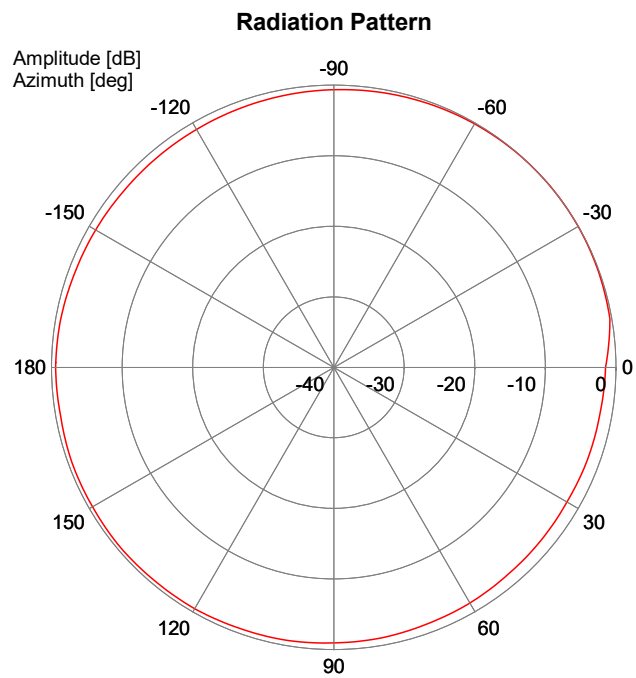
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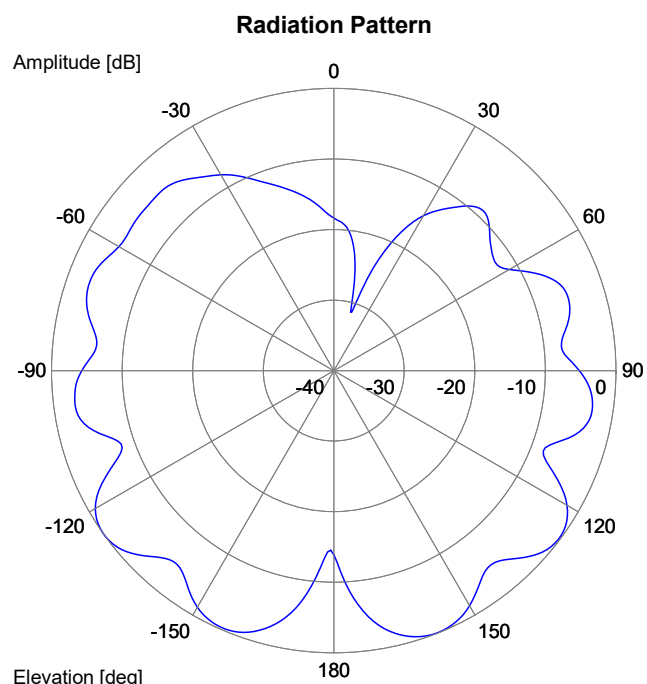
Lot-No.: 5065

Port: Vertical

Frequency: 1850 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

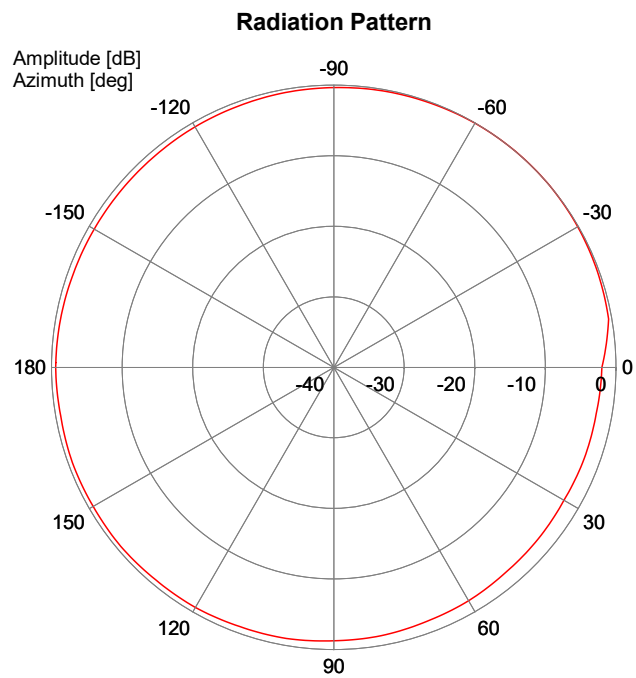
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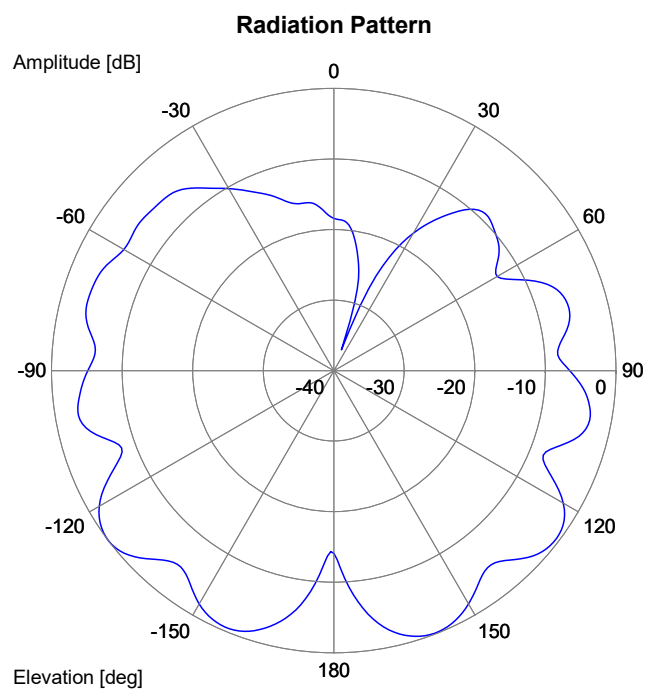
Lot-No.: 5065

Port: Vertical

Frequency: 1880 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

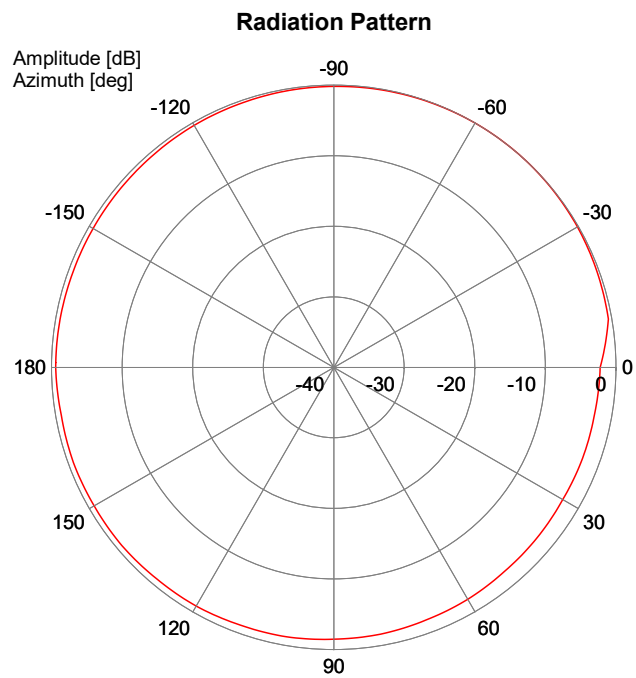
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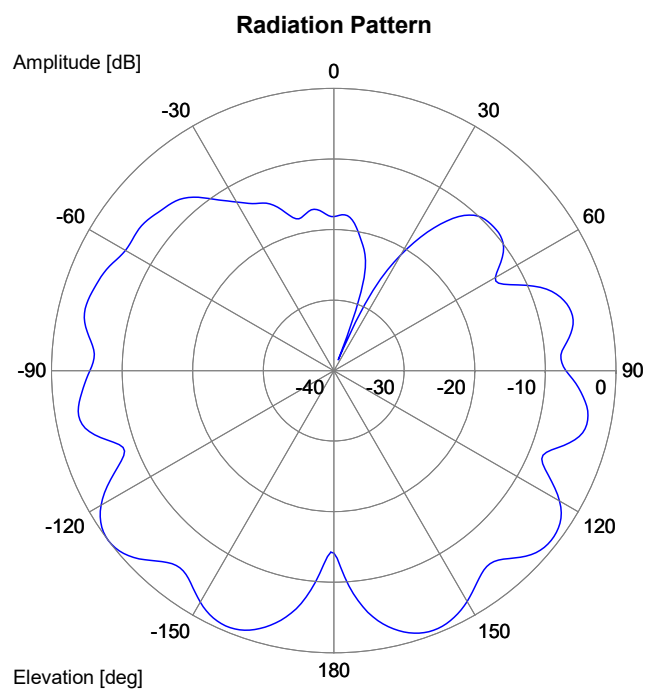
Lot-No.: 5065

Port: Vertical

Frequency: 1900 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

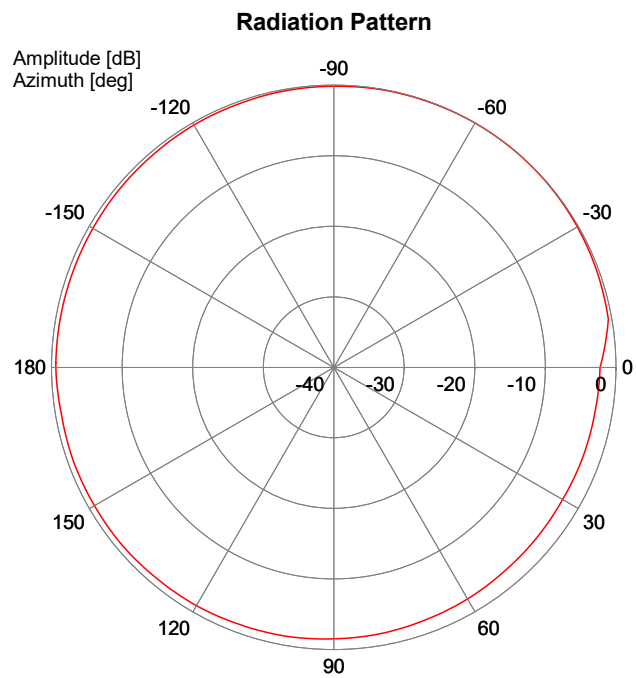
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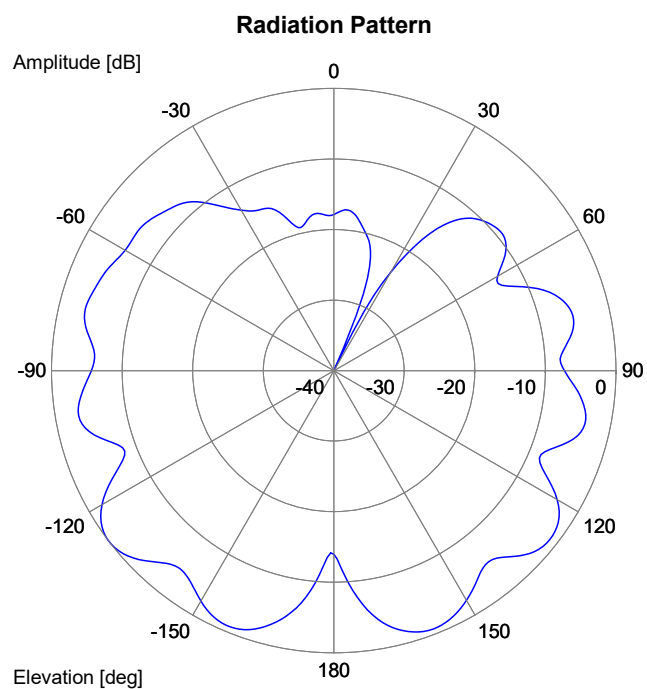
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Port: Vertical

Frequency: 1910 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

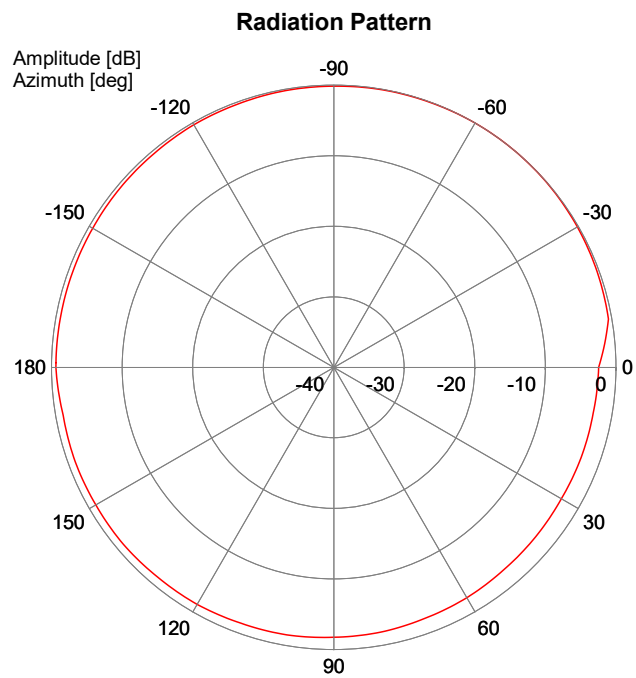
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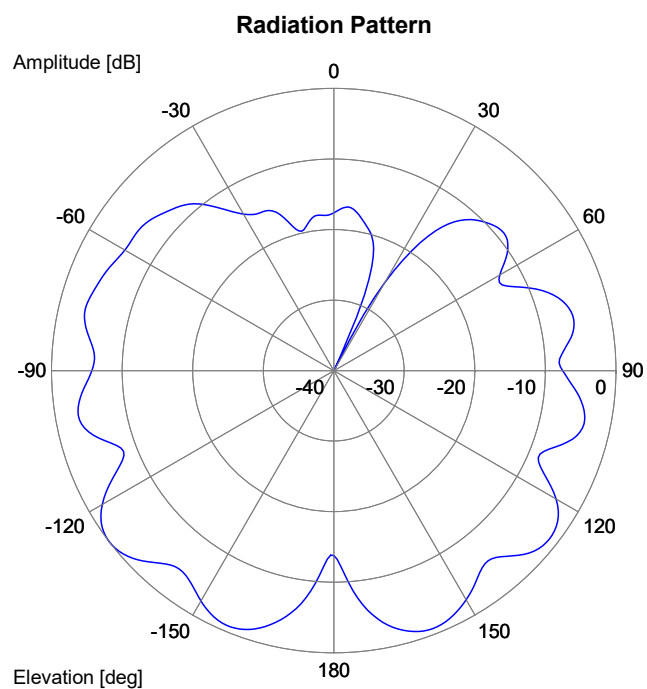
Lot-No.: 5065

Port: Vertical

Frequency: 1915 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

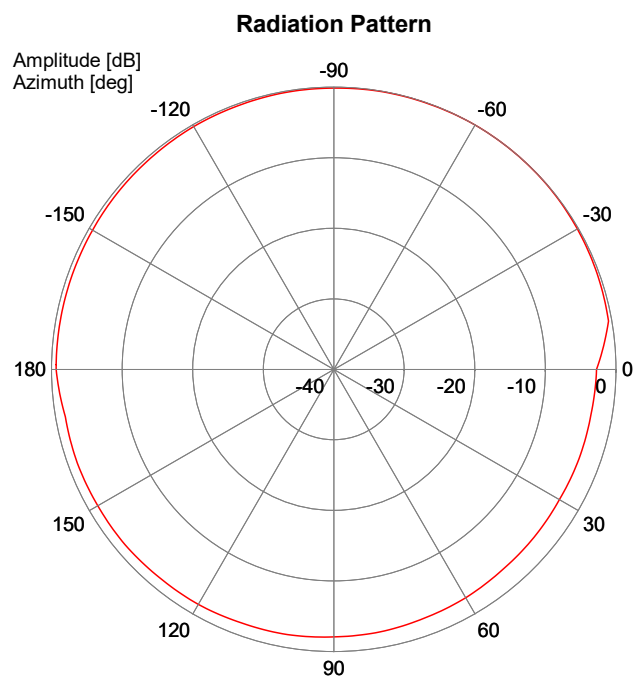
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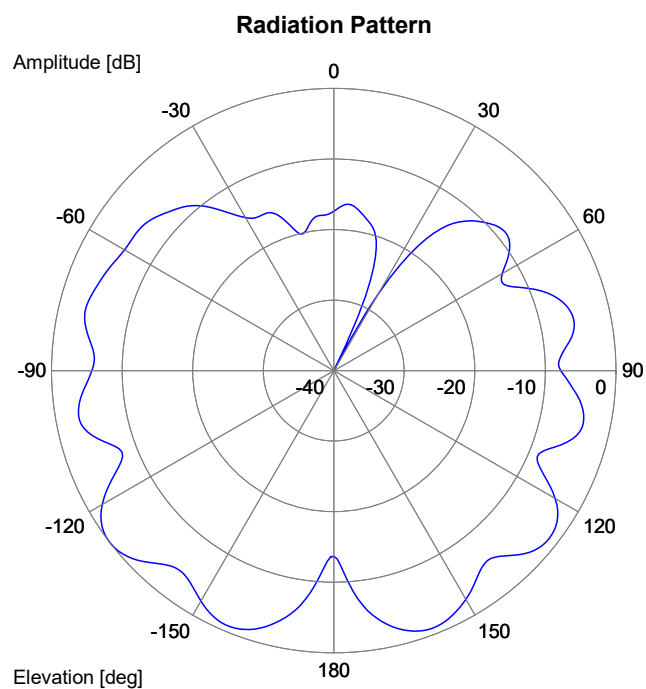
Lot-No.: 5065

Port: Vertical

Frequency: 1920 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

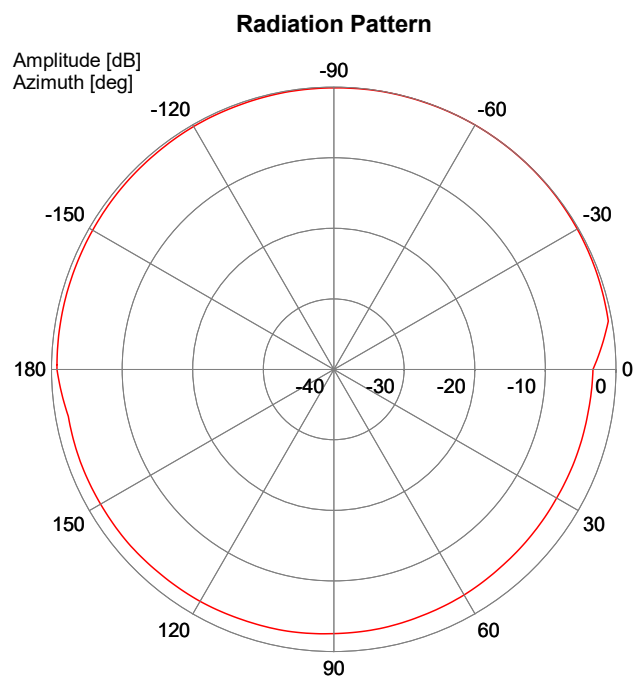
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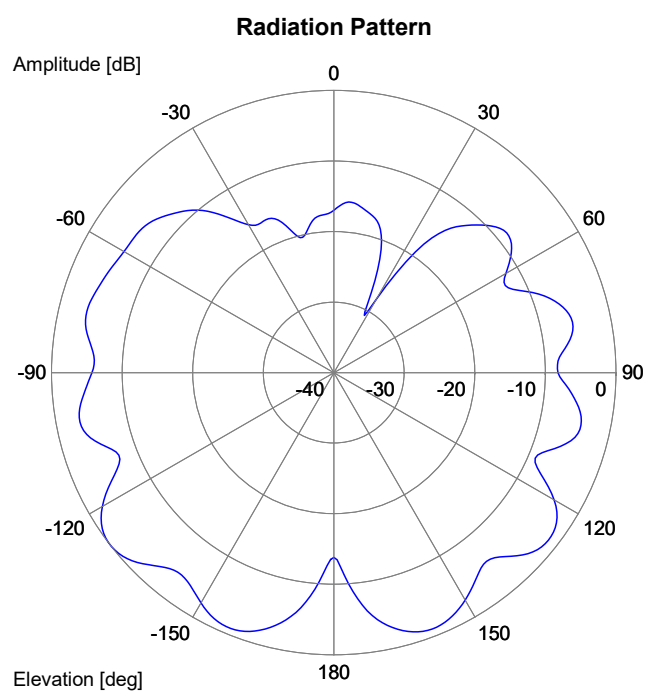
Lot-No.: 5065

Port: Vertical

Frequency: 1930 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

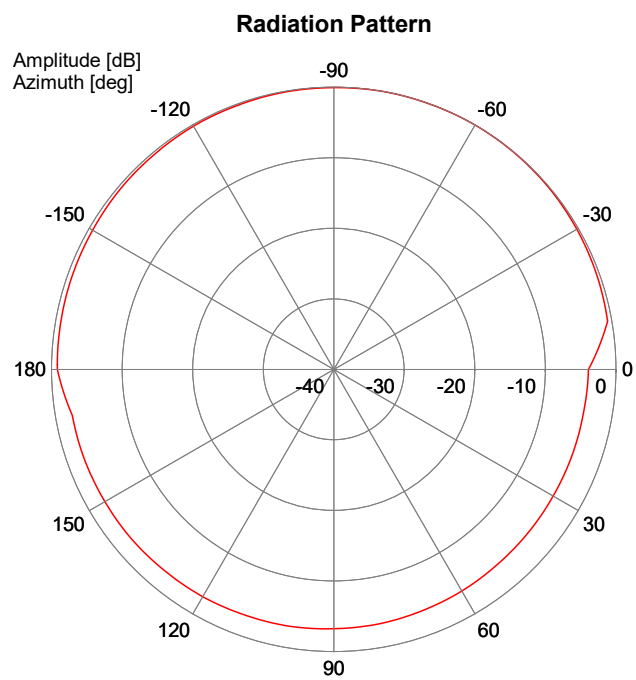
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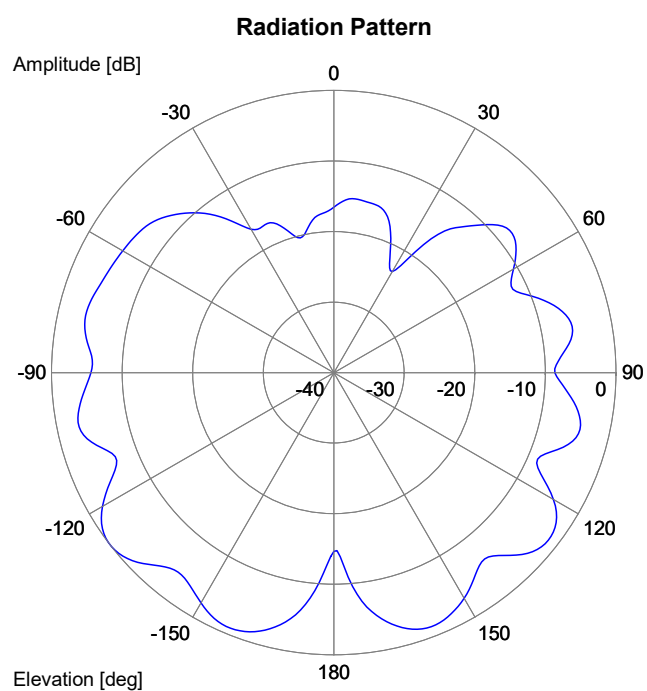
Lot-No.: 5065

Port: Vertical

Frequency: 1950 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

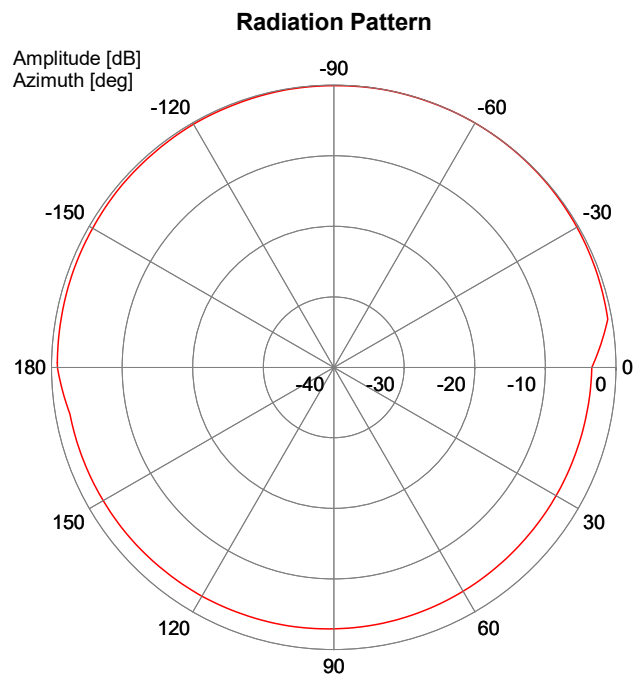
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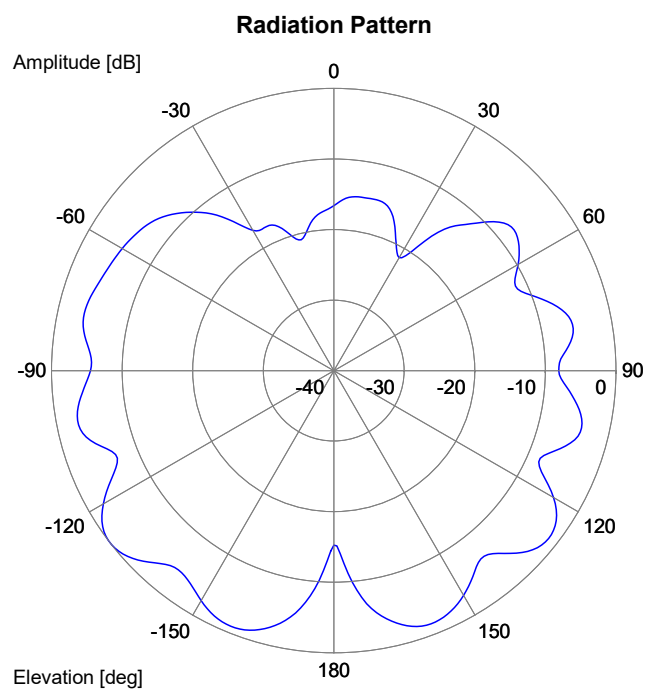
Lot-No.: 5065

Port: Vertical

Frequency: 1960 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

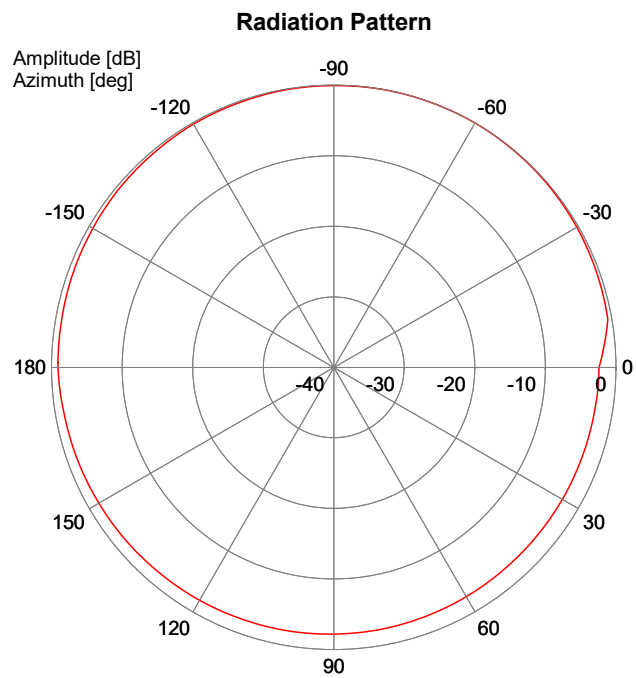
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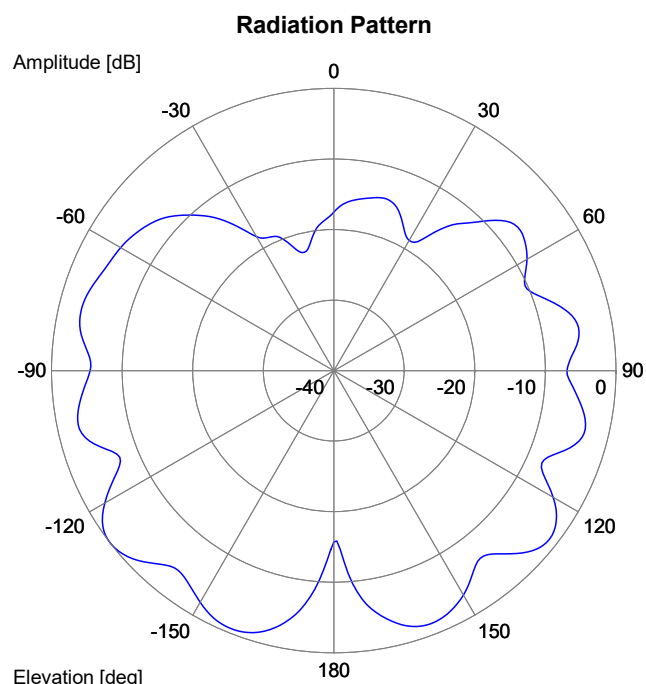
Lot-No.: 5065

Port: Vertical

Frequency: 1980 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

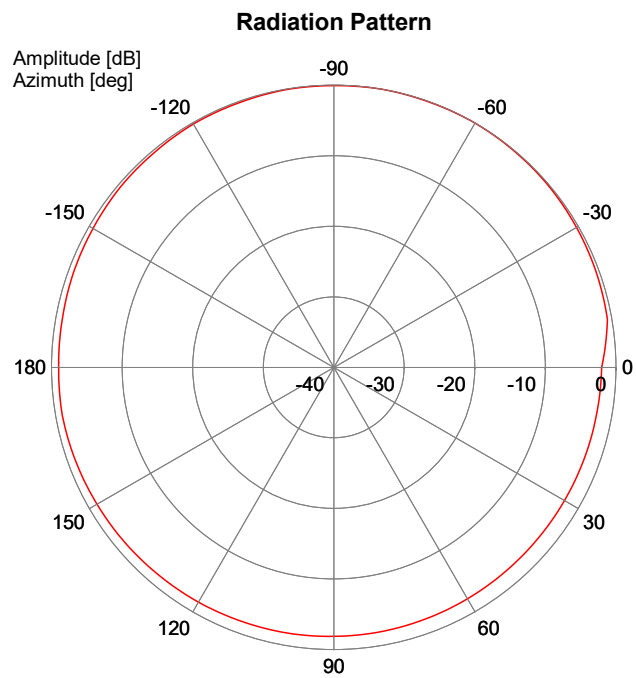
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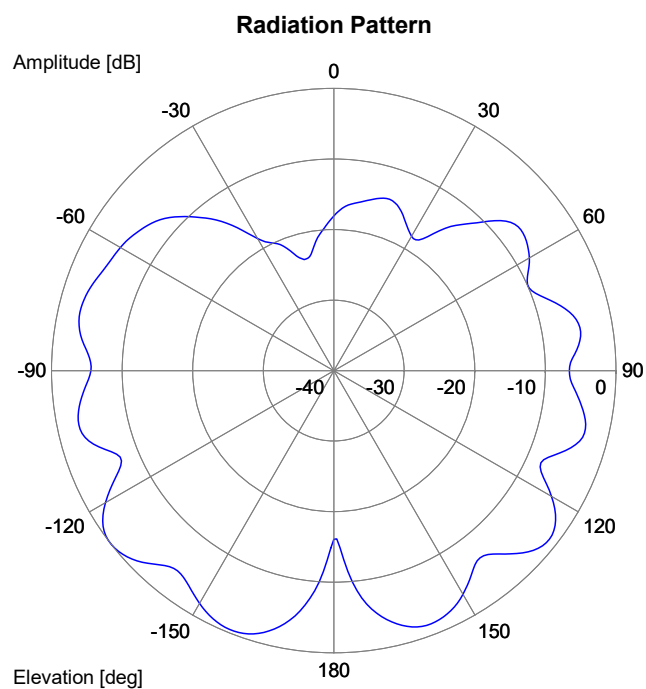
Lot-No.: 5065

Port: Vertical

Frequency: 1990 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

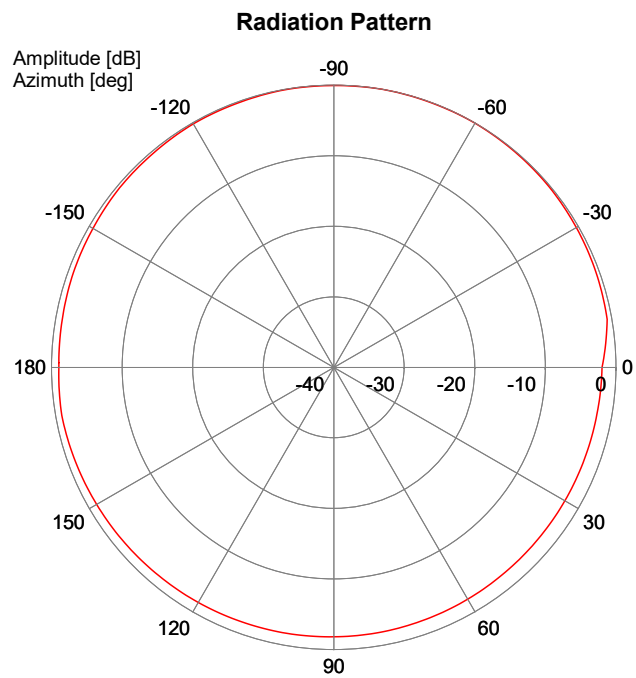
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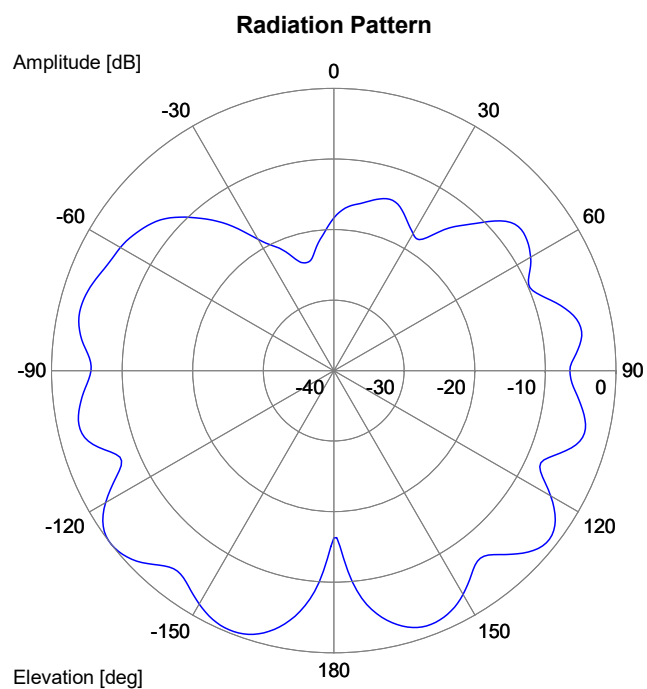
Lot-No.: 5065

Port: Vertical

Frequency: 1995 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

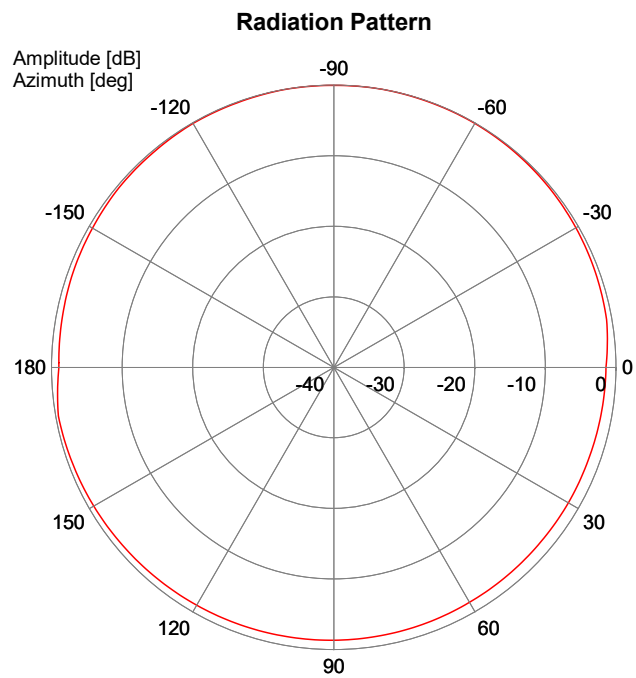
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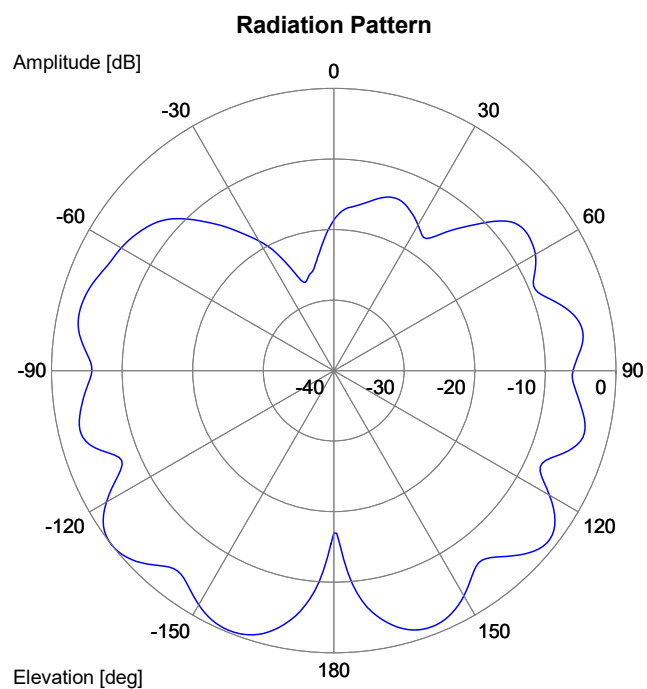
Lot-No.: 5065

Port: Vertical

Frequency: 2010 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

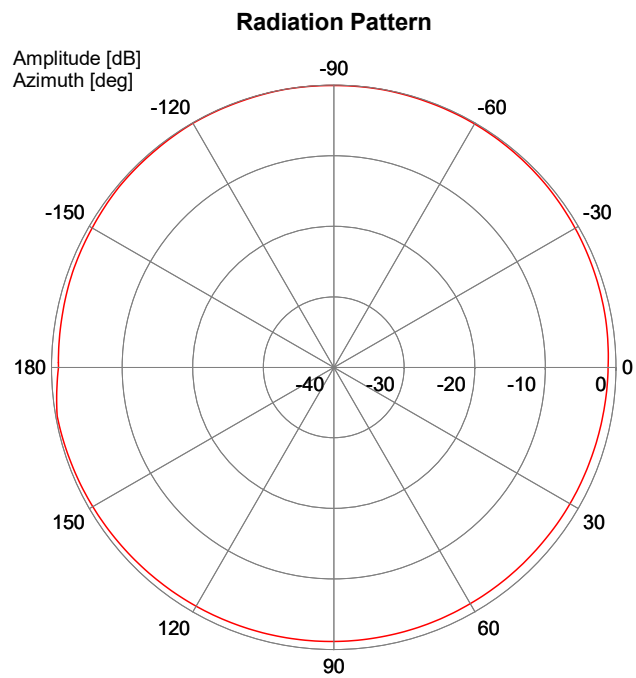
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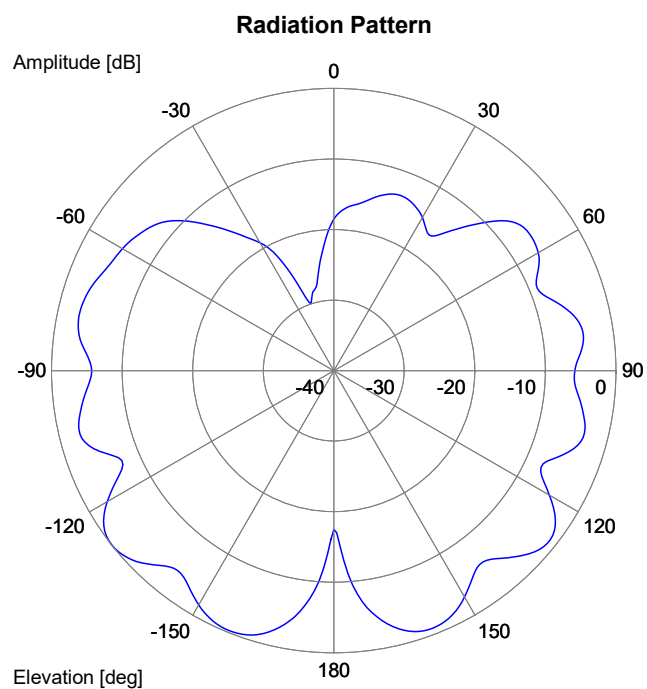
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Port: Vertical

Frequency: 2020 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar

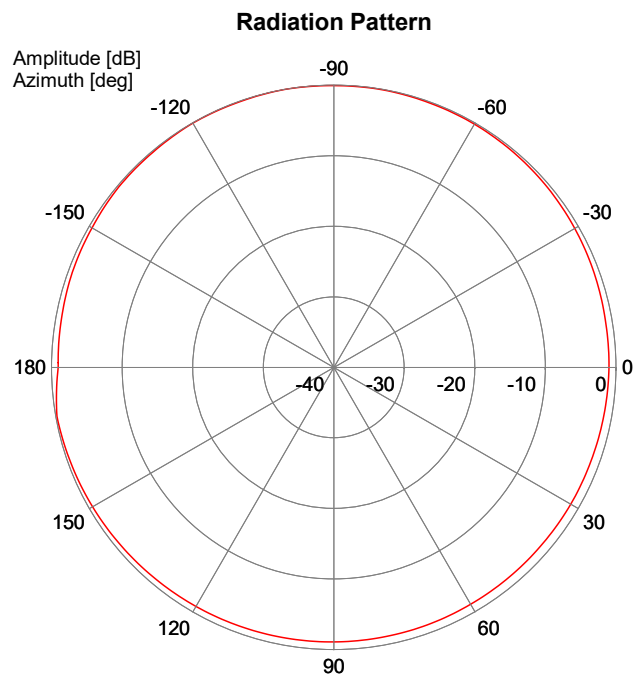
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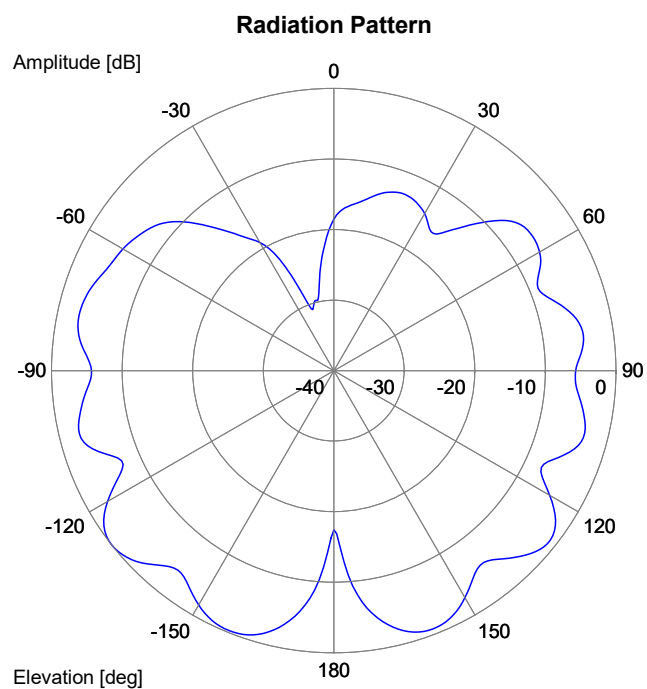
Lot-No.: 5065

Port: Vertical

Frequency: 2025 MHz



— Horizontal-Plane: Copolar



— Vertical-Plane: Copolar